Linear Regression: Check Your Understanding

With that in mind, can you match the following terms?

Before going on to the lab, here are some additional practice questions that you can use to check your understanding of linear regression.

	QUESTION 1 OF 4 Which of the following statements about linear regression are incorrect ? (Select all that apply.)
	A general equation like y = mx + b is a model
	Simple linear regression uses a <i>plane</i> to describe relationships between variables
	Multiple linear regression involves more than one input variable
	Linear regression assumes that the input variables and output variable follow a linear relationship
	SUBMIT
	QUESTION 2 OF 4 One of the things that can be difficult when looking at a machine learning algorithm is that different terms and symbols are often used to refer to the same (or very closely related) things.

LINEAR REGRESSION MACHINE LEARNING

slope coefficient

intercept bias

RMSE cost function

QUESTION 3 OF 4
Which of the following about training a linear regression model is correct?
(Select all that apply.)

The training process is a process of minimizing the error

A cost function is used to calculate the error of a model

A linear regression model will not change much if outliers are removed

It is not necessary to remove highly correlated input variables when training a model

It is always a good idea to rescale data

SUBMIT

QUESTION 4 OF 4
Which one of the following is not necessary when preparing data for a linear regression model?

Remove noise

Make sure the input variable(s) and output variable follow a linear relationship

Remove collinearity

Make sure the error is minimized.

SURMIT